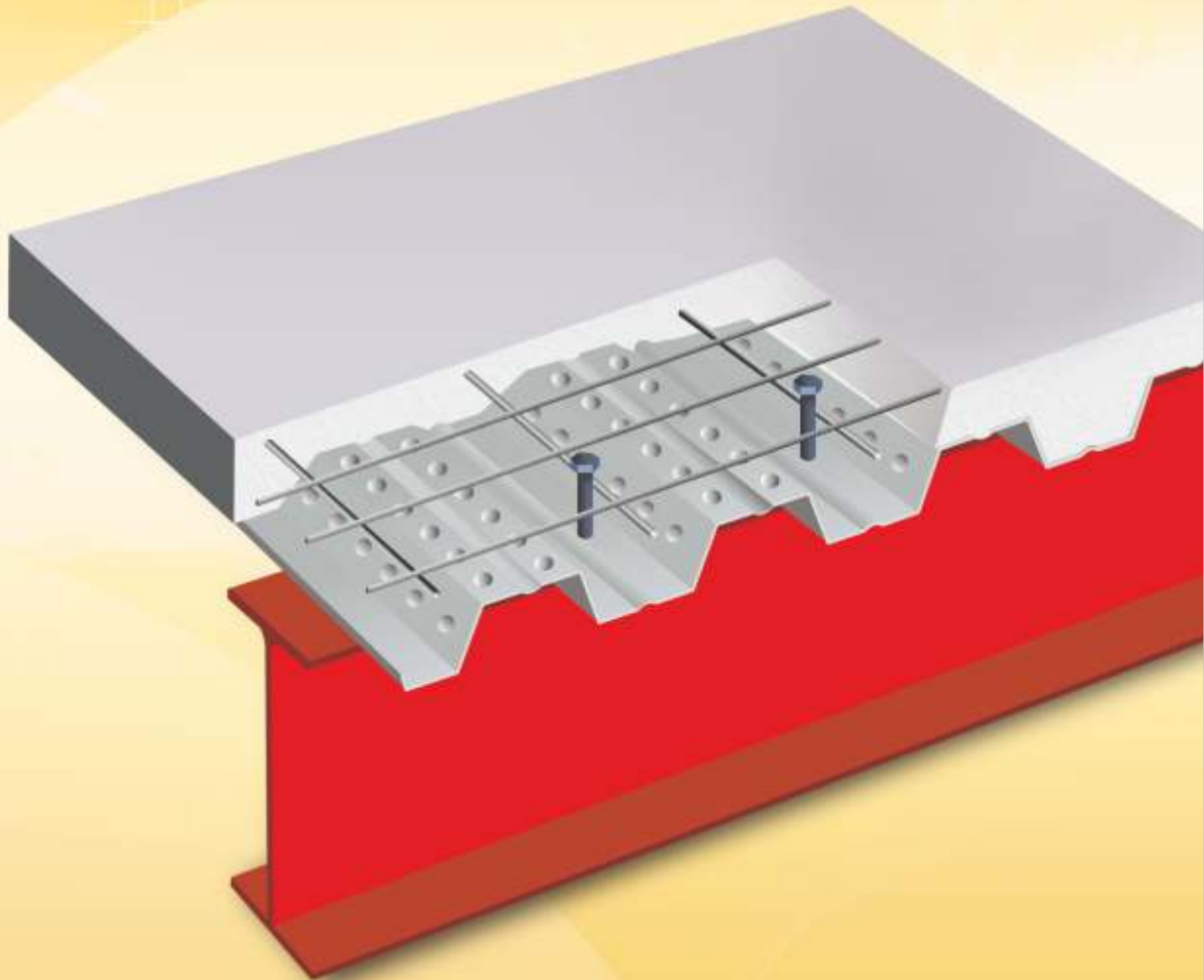


www.alfapebltd.com



Alfaa Profiles & Panels

FlorDec

Composite Floor Deck

ALFA PEB LIMITED



The Modern
CONSTRUCTIONTM
Solutions



DECKING PROFILE
75/305mm



DECKING PROFILE
50/230mm

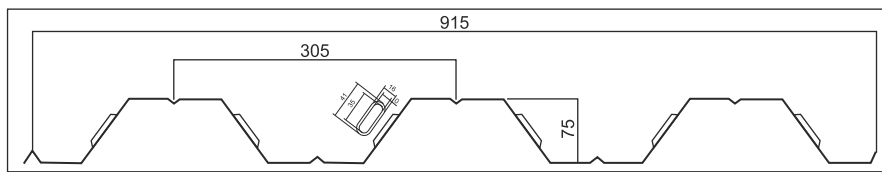
INTRODUCTION

Floor Decking is one of the most effective methods of constructing floors in steel building and very useful in high-rise RCC/Steel Buildings. Since they are joined into the floor concrete, they serve the dual purpose of permanent form and positive reinforcement of the floor. In addition to a wide range of profiles to choose from, our in-house design teams can also create profiles like 50MM AND 75MM to suit every requirement.

Decking Profile - 75/305

Dimension (mm)

Depth(d) → 75 Pitch(p) → 305 Overall width → 922 Covered Width → 915 Thickness → 0.80-1.2



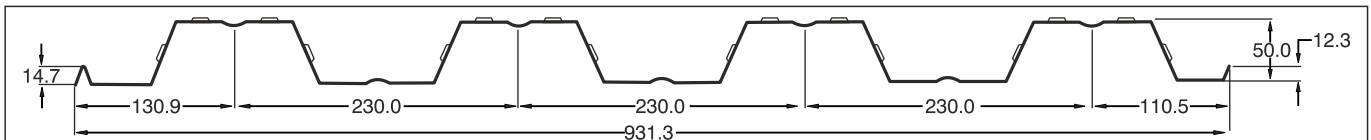
305/915 profile steel panel/250Mpa (75mm rib)

Panel Thickness mm	0.8	1	1.2	Weightkg/m2	7.66	9.57	11.97
Area cm2	9.76	12.19	15.25	Ix cm4	100.90	126.10	157.70
ZX-Top cm3	26.91	33.63	42.05	ZX-Bottom cm3	26.91	33.63	42.05
Ma Kn.m	4.036	5.044	6.308	fy =	25	Kn/cm2	
				E =	2.00E+08	KN/M2	

Decking Profile - 50/230

Dimension (mm)

Depth(d) → 50 Pitch(p) → 230 Overall width → 931 Covered Width → 910 Thickness → 0.80-1.2



230/915 profile steel panel/250Mpa (50mm rib)

Panel Thickness mm	0.8	1	1.2	Weightkg/m2	7.66	9.57	11.97
Area cm2	9.76	12.19	15.25	Ix cm4	100.9	126.1	157.7
ZX-Top cm3	26.91	33.63	42.05	ZX-Bottom cm3	26.91	33.63	42.05
Ma Kn.m	4.036	5.044	6.308	fy =	25	Kn/cm2	

BENEFITS OF METAL DECKING

- ✳ Light weight. Doesn't require any support, which considerably reduces the use of concrete & slab thickness.
- ✳ Acts as composite member and as permanent shuttering.
- ✳ No major reinforcement required.
- ✳ Deck can be used as a working platform during construction.
- ✳ Speedy construction enables faster completion of a project.
- ✳ Decking reduces the construction time, hence the total cost.

APPLICATION

Metal Decking, Which Can Be Effectively Used In A Wide Range Of Infrastructure Projects:

- ✳ Power Projects.
- ✳ Industrial Buildings Multi-Storeyed Buildings.
- ✳ Supermarkets / Malls.
- ✳ SEZs.
- ✳ Storage Sites.
- ✳ Mezzanine Floors.
- ✳ Bridges.
- ✳ Walkways.
- ✳ Platforms.



ADVANTAGES OF SHEAR CONNECTORS



- ✦ Easy to use.
- ✦ Economical.
- ✦ Very fast installation as compared to conventional processes.
- ✦ More consistent as the weld parameters are predetermined and programmed in the machine itself.
- ✦ Minimum human intervention.
- ✦ Through deck welding is also possible where the Headed Shear Connector is welded through a formed galvanized sheet onto a steel beam. Concrete is then poured over the formed sheet and the shear connectors.
- ✦ Reduction in concrete as well as steel.
- ✦ Greater strength of the structure.
- ✦ Greater speed of construction.
- ✦ Lesser floor sections.

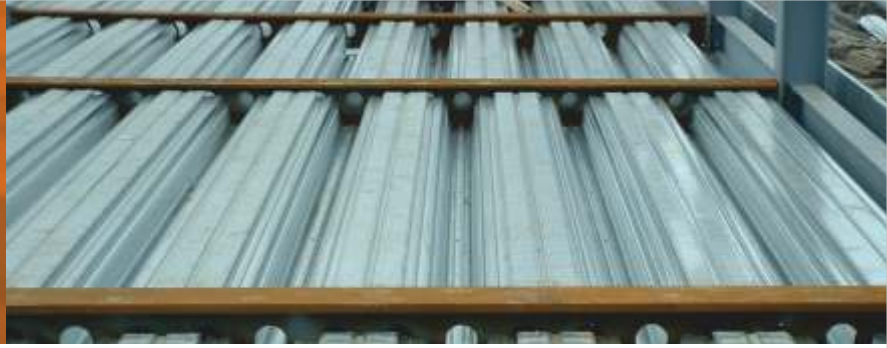
MODULAR MEZZANINE FLOORS (IN INDUSTRIAL BUILDINGS)

We provide mezzanine floors for industrial buildings. Mezzanine floors are a key part to our business enabling to maximize your productive floor space by doubling its capacity. These structures are usually free standing and in most cases can be dismantled and relocated.

Mezzanines are frequently used in industrial operations such as warehousing, distribution or manufacturing. Industrial mezzanine structures are typically either structural, roll formed, rack-supported, or shelf-supported, allowing high density storage within the mezzanine structure. Mezzanine floors are lightweight open grid floors.



DECK SHEET FOR CAR PARK



EXCLUSIVE FOR CAR PARK

Alfa Deck Sheet 75 can be manufactured with pre-finished steel coating to the underside. This is suitable for situations where a visibly exposed Deck soffit is required, such as in multi-storey car parks. The Alfa Deck soffit can be left exposed or where further protection is required it can form the base coat for further protective systems.

PERFORMANCE

The 25 micron polyester coating on its own will be satisfactory in a dry and unpolluted environment (such as would be expected on most car park soffits) and will only require regular inspection or assessment after a period of ten years.

APPLICATION

Composite floor decking offers the same benefits to car parks as to other steel framed buildings. Primarily these are speed of erection and reduced carriage requirements. Furthermore the reduced structure weight, height, and the provision of a working platform during construction can be very significant advantages.

Durability of metal decking in car parks

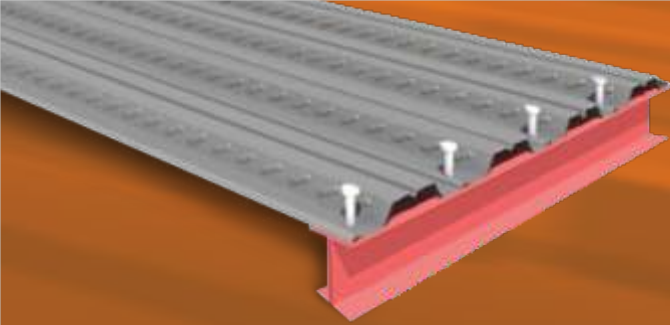
Galvanised is the standard protective coating for composite steel decking, giving a sufficient level of corrosion protection to the upper surface of the decking, provided adequate provision has been made to prevent the ingress of water (using reinforcement to control cracking, and waterproofing to the top surface of the concrete). The top deck of the car park should be waterproofed with a traditional bituminous membrane or liquid applied seamless coating. It is also good practice to treat other floors to prevent ingress of water from above. Adequate falls and drainage should be provided, to prevent the build up of water on the slabs.

The underside of the decking may additionally be pre-finished (with Colorcoat Exterior Flexible Polyester) or by using epoxy paint applied in site, in order to provide a contemporary appeal or additional protection. Alfa will provide advice on durability or future maintenance depending on the preferred post-finish.

Car park roof

There is a growing trend to use a lightweight roof over the top parking deck. This gives added protection to the top floor of the car park allowing users to park in all weathers.

The aesthetic appeal of a car park can be significantly enhanced by this method enabling the car park to blend in with the urban environment. The long-term benefits of reduced maintenance can far outweigh the initial cost of this approach and will be benefitted from protection against the external climate.



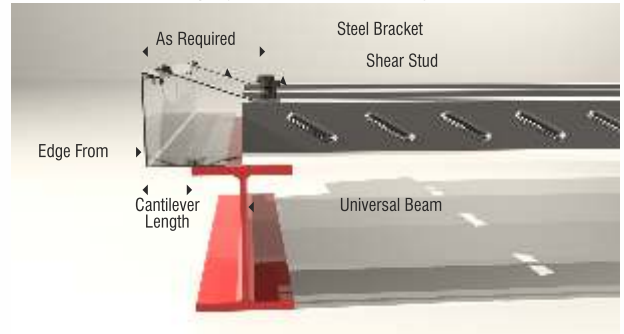
FLOOR DECKING SHEET FIXING METHOD

Alfa fixing detail: The accessories are added as per design requirement

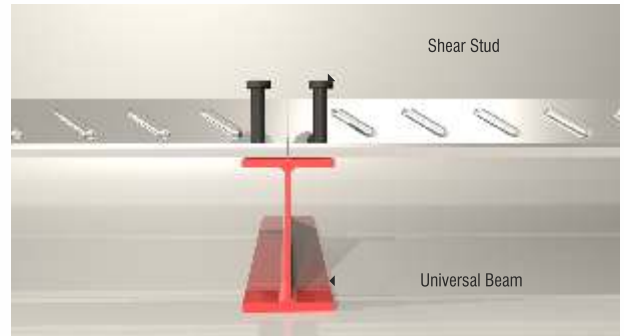
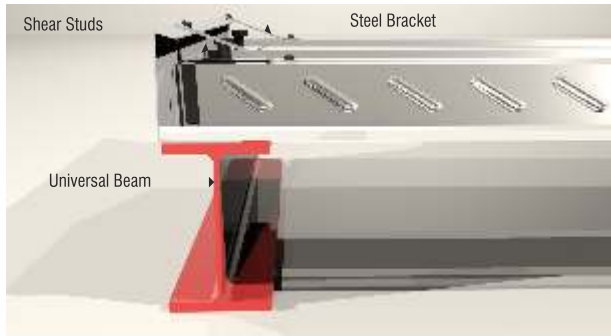
Connections details Steel Connections details



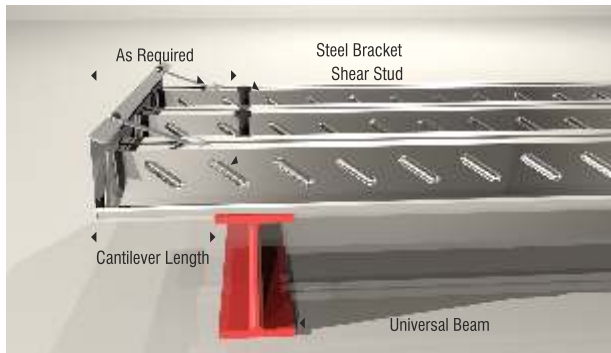
End details-option1: Alternate details for structures where projections are necessary



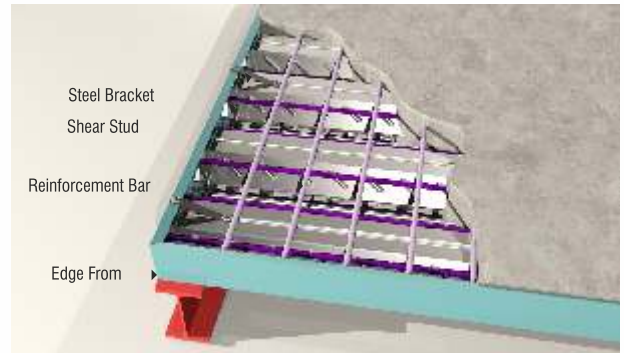
End details-flush type: standard end closure detail adopted for steel frame structure



End details-option1: details adopted for cantilever end projections



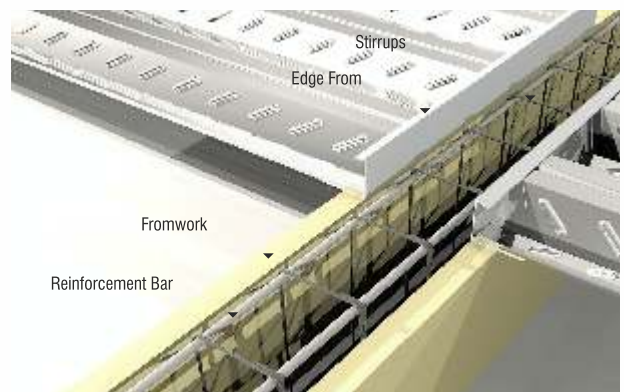
Corner details: the ends are closed to make sure the concrete slurry takes the required shape quickly



Temporary support details(if required) :Alfaprofile spans longer than conventional system where possibility of temporary support is less.



Concrete Connection details



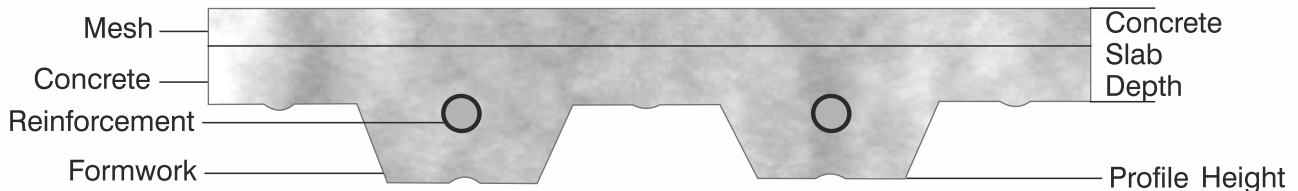
Butt joint details: standard joint details for continuous casting of slab

FORMWORK (NON-COMPOSITE)

Permanent Formwork Profile Renge

We manufacture profiles which are used as Permanent form work. remains in situ for the life of the building but, unlike composite flooring profiles, it does not Act as reinforcement in the concrete slab.

- The steel decking supports the wet concrete and construction loads.
- Temporary propping can be eliminated.
- The concrete slab requires full structural bar or mesh reinforcement.



TECHNICAL SPECIFICATION

Base Metal	High Tensile Structural Grade Steel 240 / 345mpa / 550
Coating Mass	120,180,& 275 GSM
Thickness	0.8 mm to 2 mm
Coating Standard	Galvanised Steel as per IS : 277
Type	Bare, Primer Coated, Galvanised, Pre Painted
Length	Upto 12000 mm



An ISO 9001 -2008
Certified Company

Manufacturing Units:

Hosur/Tamilnadu - Unit 1
PEB/Continuous Sandwich Puf Panel Production Line.

Bengaluru/Karnataka - Unit 2
Steel Roofing Production Line.

Pune/Maharashtra - Unit 3
Steel Purlin/Steel Decking/Steel Roofing Production Line.

Harohalli/Karnataka - Unit 4
Fire Rated Door /Clean Room Wall, Ceiling Panel and
Doors/Cold Storage Panels and Doors Production Line.

Ahmedabad/Gujarat Unit 5
All Types of Continuous Sandwich Puf Panel Production Line.

Marketing offices:

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Bengaluru Karnataka - 560 030

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Bangalore - 560002

Chennai
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Montieth Road, Egmore,
Chennai - 600008

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Kalukondapalli Village Thally Road,
Hosur - 635114

Hyderabad
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Thokatta Village, Contonment,
Tarbund, Secunderabad
Telangana - 500 009

Ahmedabad
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No 254 and Survey No. 212,
Paikki 2 Village Chancharvadi,
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Ahmedabad - 382213

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Market, Vijayawada - 520 012

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